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(71) Applicant:

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(54) VIDEO DISPLAY DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a compact and light weight wide angle of view head- mounted type video display device with the chromatic aberration compensated well.

SOLUTION: In the head-mounted type video display device equipped with a video display element 1 for displaying a video, a concave mirror 2 for performing magnification projection of the video at the pupil E of an eyeball and a half mirror 3 disposed between the pupil E of the eyeball and the concave mirror 2, or between the video display element 1 and the concave mirror 2, a diffracted optical device 20 of positive power is disposed in an optical path, and the following relation $0.033<\Sigma$ (f/fDOE)<0.19 is satisfied, where the f is the focal length of the optical whole system in diffraction order light, the fDOE is the focal length of the diffracted optical device, and the Σ means taking total of those, when there are a

plurality of diffracted optical devices.

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